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TITLE: Synthesis of 5-(hetero)aryl-1,3,4-oxadiazolyl -2-acetic acids
AUTHOR(S): Janda, Lubomir
CORPORATE SOURCE: Aldrich Chemical Co., Inc., Milwaukee, WI, 53233, USA
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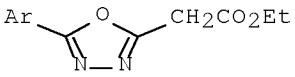

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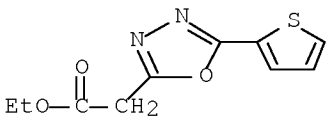
AB Et (1H-tetrazol-5-yl)acetate is acylated with aroyl chlorides and heteroaroyl chlorides in pyridine. The intermediate acyltetrazoles undergo thermal degradation to Et [5-(hetero)aryl-1,3,4-oxadiazol -2-yl]acetates [I; Ar = 2-furanyl, 2-thienyl, (un)substituted phenyl]. The corresponding acetic acids are obtained by potassium hydroxide mediated hydrolysis of the esters in anhydrous ethanol.

IT 415679-22-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and conversion to carboxylic acid)
RN 415679-22-0 CAPLUS
CN 1,3,4-Oxadiazole-2-acetic acid, 5-(2-thienyl)-, ethyl ester (CA INDEX NAME)



IT 415679-28-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 415679-28-6 CAPLUS
CN 1,3,4-Oxadiazole-2-acetic acid, 5-(2-thienyl)- (CA INDEX NAME)